



IFW16

RAW SEQUENCE LISTING

DATE: 10/13/2004

PATENT APPLICATION: US/10/671,019

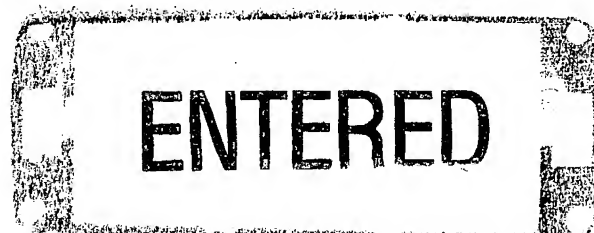
TIME: 13:25:36

Input Set : A:\CEN 5014USNP Gas6 Mabs.ST25.txt

Output Set: N:\CRF4\10132004\J671019.raw

3 <110> APPLICANT: Centocor, Inc.
 4 Yang, Jing
 5 Heavner, George
 6 Jordan, Robert
 8 <120> TITLE OF INVENTION: GROWTH ARREST SPECIFIC GENE 6 PEPTIDES, ANTIBODIES,
 COMPOSITIONS,

9 METHODS AND USES
 11 <130> FILE REFERENCE: US 60/413250
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/671,019
 14 <141> CURRENT FILING DATE: 2003-09-24
 16 <150> PRIOR APPLICATION NUMBER: 60/413250
 17 <151> PRIOR FILING DATE: 2002-09-24
 19 <160> NUMBER OF SEQ ID NOS: 38
 21 <170> SOFTWARE: PatentIn version 3.2
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 678
 25 <212> TYPE: PRT
 26 <213> ORGANISM: Homo sapiens
 28 <400> SEQUENCE: 1



30 Met Ala Pro Ser Leu Ser Pro Gly Pro Ala Ala Leu Arg Arg Ala Pro
 31 1 5 10 15
 34 Gln Leu Leu Leu Leu Leu Ala Ala Glu Cys Ala Leu Ala Ala Leu
 35 20 25 30
 38 Leu Pro Ala Arg Glu Ala Thr Gln Phe Leu Arg Pro Arg Gln Arg Arg
 39 35 40 45
 42 Ala Phe Gln Val Phe Glu Glu Ala Lys Gln Gly His Leu Glu Arg Glu
 43 50 55 60
 46 Cys Val Glu Glu Leu Cys Ser Arg Glu Glu Ala Arg Glu Val Phe Glu
 47 65 70 75 80
 50 Asn Asp Pro Glu Thr Asp Tyr Phe Tyr Pro Arg Tyr Leu Asp Cys Ile
 51 85 90 95
 54 Asn Lys Tyr Gly Ser Pro Tyr Thr Lys Asn Ser Gly Phe Ala Thr Cys
 55 100 105 110
 58 Val Gln Asn Leu Pro Asp Gln Cys Thr Pro Asn Pro Cys Asp Arg Lys
 59 115 120 125
 62 Gly Thr Gln Ala Cys Gln Asp Leu Met Gly Asn Phe Phe Cys Leu Cys
 63 130 135 140
 66 Lys Ala Gly Trp Gly Gly Arg Leu Cys Asp Lys Asp Val Asn Glu Cys
 67 145 150 155 160
 70 Ser Gln Glu Asn Gly Gly Cys Leu Gln Ile Cys His Asn Lys Pro Gly
 71 165 170 175
 74 Ser Phe His Cys Ser Cys His Ser Gly Phe Glu Leu Ser Ser Asp Gly
 75 180 185 190
 78 Arg Thr Cys Gln Asp Ile Asp Glu Cys Ala Asp Ser Glu Ala Cys Gly

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79          195          200          205
82 Glu Ala Arg Cys Lys Asn Leu Pro Gly Ser Tyr Ser Cys Leu Cys Asp
83          210          215          220
86 Glu Gly Phe Ala Tyr Ser Ser Gln Glu Lys Ala Cys Arg Asp Val Asp
87 225          230          235          240
90 Glu Cys Leu Gln Gly Arg Cys Glu Gln Val Cys Val Asn Ser Pro Gly
91          245          250          255
94 Ser Tyr Thr Cys His Cys Asp Gly Arg Gly Gly Leu Lys Leu Ser Gln
95          260          265          270
98 Asp Met Asp Thr Cys Glu Asp Ile Leu Pro Cys Val Pro Phe Ser Val
99          275          280          285
102 Ala Lys Ser Val Lys Ser Leu Tyr Leu Gly Arg Met Phe Ser Gly Thr
103          290          295          300
106 Pro Val Ile Arg Leu Arg Phe Lys Arg Leu Gln Pro Thr Arg Leu Val
107 305          310          315          320
110 Ala Glu Phe Asp Phe Arg Thr Phe Asp Pro Glu Gly Ile Leu Leu Phe
111          325          330          335
114 Ala Gly Gly His Gln Asp Ser Thr Trp Ile Val Leu Ala Leu Arg Ala
115          340          345          350
118 Gly Arg Leu Glu Leu Gln Leu Arg Tyr Asn Gly Val Gly Arg Val Thr
119          355          360          365
122 Ser Ser Gly Pro Val Ile Asn His Gly Met Trp Gln Thr Ile Ser Val
123          370          375          380
126 Glu Glu Leu Ala Arg Asn Leu Val Ile Lys Val Asn Arg Asp Ala Val
127 385          390          395          400
130 Met Lys Ile Ala Val Ala Gly Asp Leu Phe Gln Pro Glu Arg Gly Leu
131          405          410          415
134 Tyr His Leu Asn Leu Thr Val Gly Gly Ile Pro Phe His Glu Lys Asp
135          420          425          430
138 Leu Val Gln Pro Ile Asn Pro Arg Leu Asp Gly Cys Met Arg Ser Trp
139          435          440          445
142 Asn Trp Leu Asn Gly Glu Asp Thr Thr Ile Gln Glu Thr Val Lys Val
143          450          455          460
146 Asn Thr Arg Met Gln Cys Phe Ser Val Thr Glu Arg Gly Ser Phe Tyr
147 465          470          475          480
150 Pro Gly Ser Gly Phe Ala Phe Tyr Ser Leu Asp Tyr Met Arg Thr Pro
151          485          490          495
154 Leu Asp Val Gly Thr Glu Ser Thr Trp Glu Val Glu Val Val Ala His
155          500          505          510
158 Ile Arg Pro Ala Ala Asp Thr Gly Val Leu Phe Ala Leu Trp Ala Pro
159          515          520          525
162 Asp Leu Arg Ala Val Pro Leu Ser Val Ala Leu Val Asp Tyr His Ser
163          530          535          540
166 Thr Lys Lys Leu Lys Lys Gln Leu Val Val Leu Ala Val Glu His Thr
167 545          550          555          560
170 Ala Leu Ala Leu Met Glu Ile Lys Val Cys Asp Gly Gln Glu His Val
171          565          570          575
174 Val Thr Val Ser Leu Arg Asp Gly Glu Ala Thr Leu Glu Val Asp Gly
175          580          585          590

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178 Thr Arg Gly Gln Ser Glu Val Ser Ala Ala Gln Leu Gln Glu Arg Leu
179      595                      600                      605
182 Ala Val Leu Glu Arg His Leu Arg Ser Pro Val Leu Thr Phe Ala Gly
183      610                      615                      620
186 Gly Leu Pro Asp Val Pro Val Thr Ser Ala Pro Val Thr Ala Phe Tyr
187 625                      630                      635                      640
190 Arg Gly Cys Met Thr Leu Glu Val Asn Arg Arg Leu Leu Asp Leu Asp
191      645                      650                      655
194 Glu Ala Ala Tyr Lys His Ser Asp Ile Thr Ala His Ser Cys Pro Pro
195      660                      665                      670
198 Val Glu Pro Ala Ala Ala
199      675
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203 <211> LENGTH: 15
204 <212> TYPE: PRT
205 <213> ORGANISM: homo
207 <400> SEQUENCE: 2
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210 1      5                      10                      15
213 <210> SEQ ID NO: 3
214 <211> LENGTH: 15
215 <212> TYPE: PRT
216 <213> ORGANISM: Homo sapiens
218 <400> SEQUENCE: 3
220 Leu Arg Phe Lys Arg Leu Gln Pro Thr Arg Leu Val Ala Glu Phe
221 1      5                      10                      15
224 <210> SEQ ID NO: 4
225 <211> LENGTH: 18
226 <212> TYPE: PRT
227 <213> ORGANISM: homo sapiens
229 <400> SEQUENCE: 4
231 Ile Lys Val Asn Arg Asp Ala Val Met Lys Ile Ala Val Ala Gly Asp
232 1      5                      10                      15
235 Leu Phe
239 <210> SEQ ID NO: 5
240 <211> LENGTH: 16
241 <212> TYPE: PRT
242 <213> ORGANISM: Homo sapiens
244 <400> SEQUENCE: 5
246 Val Met Lys Ile Ala Val Ala Gly Asp Leu Phe Gln Pro Glu Arg Gly
247 1      5                      10                      15
250 <210> SEQ ID NO: 6
251 <211> LENGTH: 15
252 <212> TYPE: PRT
253 <213> ORGANISM: Homo sapiens
255 <400> SEQUENCE: 6
257 Ser Gly Phe Ala Phe Tyr Ser Leu Asp Tyr Met Arg Thr Pro Leu
258 1      5                      10                      15
261 <210> SEQ ID NO: 7

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Input Set : A:\CEN 5014USNP Gas6 Mabs.ST25.txt

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262 <211> LENGTH: 12
263 <212> TYPE: PRT
264 <213> ORGANISM: Homo sapiens
266 <400> SEQUENCE: 7
268 Tyr Met Arg Thr Pro Leu Asp Val Gly Thr Glu Ser
269 1 5 10
272 <210> SEQ ID NO: 8
273 <211> LENGTH: 15
274 <212> TYPE: PRT
275 <213> ORGANISM: Homo sapiens
277 <400> SEQUENCE: 8
279 Val Leu Phe Ala Leu Trp Ala Pro Asp Leu Arg Ala Val Pro Leu
280 1 5 10 15
283 <210> SEQ ID NO: 9
284 <211> LENGTH: 13
285 <212> TYPE: PRT
286 <213> ORGANISM: Homo sapiens
288 <400> SEQUENCE: 9
290 Glu Ala Thr Leu Glu Val Asp Gly Thr Arg Gly Gln Ser
291 1 5 10
294 <210> SEQ ID NO: 10
295 <211> LENGTH: 18
296 <212> TYPE: PRT
297 <213> ORGANISM: Homo sapiens
299 <400> SEQUENCE: 10
301 Glu Val Ser Ala Ala Gln Leu Gln Glu Arg Leu Ala Val Leu Glu Arg
302 1 5 10 15
305 His Leu
309 <210> SEQ ID NO: 11
310 <211> LENGTH: 16
311 <212> TYPE: PRT
312 <213> ORGANISM: Homo sapiens
314 <400> SEQUENCE: 11
316 His Leu Arg Ser Pro Val Leu Thr Phe Ala Gly Gly Leu Pro Asp Val
317 1 5 10 15
320 <210> SEQ ID NO: 12
321 <211> LENGTH: 14
322 <212> TYPE: PRT
323 <213> ORGANISM: Homo sapiens
325 <400> SEQUENCE: 12
327 Val Pro Val Thr Ser Ala Pro Val Thr Ala Phe Tyr Arg Gly
328 1 5 10
331 <210> SEQ ID NO: 13
332 <211> LENGTH: 21
333 <212> TYPE: PRT
334 <213> ORGANISM: Homo sapiens
336 <400> SEQUENCE: 13
338 Leu Glu Val Asn Arg Arg Leu Leu Asp Leu Asp Glu Ala Ala Tyr Lys
339 1 5 10 15

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Input Set : A:\CEN 5014USNP Gas6 Mabs.ST25.txt

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342 His Ser Asp Ile Thr

343 20

346 <210> SEQ ID NO: 14

347 <211> LENGTH: 20

348 <212> TYPE: PRT

349 <213> ORGANISM: Homo sapiens

351 <400> SEQUENCE: 14

353 Phe Tyr Arg Gly Cys Met Thr Leu Glu Val Asn Arg Arg Leu Leu Asp

354 1 5 10 15

357 Leu Asp Glu Ala

358 20

361 <210> SEQ ID NO: 15

362 <211> LENGTH: 20

363 <212> TYPE: PRT

364 <213> ORGANISM: Homo sapiens

366 <400> SEQUENCE: 15

368 Ala Tyr Lys His Ser Asp Ile Thr Ala His Ser Cys Pro Pro Val Glu

369 1 5 10 15

372 Pro Ala Ala Ala

373 20

376 <210> SEQ ID NO: 16

377 <211> LENGTH: 227

378 <212> TYPE: PRT

379 <213> ORGANISM: Homo sapiens

381 <400> SEQUENCE: 16

383 Pro Arg Tyr Leu Asp Cys Ile Asn Lys Tyr Gly Ser Pro Tyr Thr Lys

384 1 5 10 15

387 Asn Ser Gly Phe Ala Thr Cys Val Gln Asn Leu Pro Asp Gln Cys Thr

388 20 25 30

391 Pro Asn Pro Cys Asp Arg Lys Gly Thr Gln Ala Cys Gln Asp Leu Met

392 35 40 45

395 Gly Asn Phe Phe Cys Leu Cys Lys Ala Gly Trp Gly Gly Arg Leu Cys

396 50 55 60

399 Asp Lys Asp Val Asn Glu Cys Ser Gln Glu Asn Gly Gly Cys Leu Gln

400 65 70 75 80

403 Ile Cys His Asn Lys Pro Gly Ser Phe His Cys Ser Cys His Ser Gly

404 85 90 95

407 Phe Glu Leu Ser Ser Asp Gly Arg Thr Cys Gln Asp Ile Asp Glu Cys

408 100 105 110

411 Ala Asp Ser Glu Ala Cys Gly Glu Ala Arg Cys Lys Asn Leu Pro Gly

412 115 120 125

415 Ser Tyr Ser Cys Leu Cys Asp Glu Gly Phe Ala Tyr Ser Ser Gln Glu

416 130 135 140

419 Lys Ala Cys Arg Asp Val Asp Glu Cys Leu Gln Gly Arg Cys Glu Gln

420 145 150 155 160

423 Val Cys Val Asn Ser Pro Gly Ser Tyr Thr Cys His Cys Asp Gly Arg

424 165 170 175

427 Gly Gly Leu Lys Leu Ser Gln Asp Met Asp Thr Cys Glu Asp Ile Leu

428 180 185 190

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/13/2004
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:25; N Pos. 305
Seq#:25; Xaa Pos. 102
Seq#:26; Xaa Pos. 102

VERIFICATION SUMMARY

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Input Set : A:\CEN 5014USNP Gas6 Mabs.ST25.txt

Output Set: N:\CRF4\10132004\J671019.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:635 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:288
L:636 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:336
L:688 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:96